

09/724, 613

=> s releas? (10a) nucleic acid?

3 FILES SEARCHED...

L2 5157 RELEAS? (10A) NUCLEIC ACID?

=> s l2 and cationic surfactant?

L3 20 L2 AND CATIONIC SURFACTANT?

=> s l3 and protease

L4 4 L3 AND PROTEASE

=> s l4 and salt

L5 4 L4 AND SALT

=> s l5 and buffer

L6 4 L5 AND BUFFER

=> d l6 bib abs 1-4

L6 ANSWER 1 OF 4 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN

AN 2003-370730 [35] WPIDS

DNC C2003-098150

TI Obtaining nucleic acid from biological sample and binding it to solid phase, by contacting sample with disrupting **buffer** comprising **protease** and **cationic surfactant**, and binding nucleic acid to solid phase.

DC B04 D16

IN GREENFIELD, L; MONTESCLAROS, L

PA (GREE-I) GREENFIELD L; (MONT-I) MONTESCLAROS L; (APPL-N) APPLERA CORP
CYC 1

PI US 2002177139 A1 20021128 (200335)* 57

US 6762027 B2 20040713 (200446)

ADT US 2002177139 A1 CIP of US 2000-724613 20001128, US 2001-997169 20011128;
US 6762027 B2 CIP of US 2000-724613 20001128, US 2001-997169 20011128

PRAI US 2001-997169 20011128; US 2000-724613 20001128

AN 2003-370730 [35] WPIDS

AB US2002177139 A UPAB: 20030603

NOVELTY - Obtaining (M) nucleic acid from a biological sample and binding the nucleic acid to a solid phase, comprising contacting the biological sample with a disrupting **buffer** (I) containing a **protease** and **cationic surfactant** (II), optionally substantially neutralizing the **cationic surfactant**, and binding the nucleic acid to a solid phase, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a kit comprising a **protease**, a **cationic surfactant**, and a second surfactant which neutralizes the **cationic surfactant**, or a **protease**, a **cationic surfactant**, a non-ionic surfactant which permits the binding of a nucleic acid to a solid phase in the presence of the **protease** and **cationic surfactant**, and a **buffer** with a high **salt** concentration.

USE - The method and the kit are useful for isolating and **releasing nucleic acids** from biological samples, and binding the isolated **nucleic acid** to a solid phase.

ADVANTAGE - The method and the kit reduce the time needed for sample preparation, decrease potential safety risks posed by multistep procedures that require repeated sample manipulation, and/or provide high integrity (i.e. minimally degraded) high molecular weight nucleic acid. The method and the kit also obviate the need for additional equipment to physically or mechanically disrupt tissue.

Dwg.0/30

L6 ANSWER 2 OF 4 USPATFULL on STN
AN 2004:151437 USPATFULL
TI Compositions and methods for nucleic acid extraction from biological samples
IN Weber, Scott A., St. Louis, MO, UNITED STATES
Douglas, Derek K., St. Louis, MO, UNITED STATES
Kreader, Carol, St. Louis, MO, UNITED STATES
PI US 2004115658 A1 20040617
AI US 2002-322103 A1 20021217 (10)
DT Utility
FS APPLICATION
LREP Donald R. Holland, Harness, Dickey & Pierce, P.L.C., 7700 Bonhomme, Suite 400, St. Louis, MO, 63105
CLMN Number of Claims: 94
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 1312

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods and compositions for extracting nucleic acids from a biological sample are provided. The extraction compositions contain a **protease** enzyme such as proteinase K at alkaline pH with little or no surfactant present. Extraction can be efficiently performed in 60 minutes or less at room temperature for certain mammalian tissue samples and at elevated temperatures for certain plant tissues.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 4 USPATFULL on STN
AN 2003:93148 USPATFULL
TI System and methods for mixing within a microfluidic device
IN Gallagher, Sean, Claremont, CA, UNITED STATES
Druyor-Sanchez, Roberta, Mesa, AZ, UNITED STATES
Chan, Yuk-Tong, Scottsdale, AZ, UNITED STATES
Dorris, David, Austin, TX, UNITED STATES
Dues, Lawrence, Chandler, AZ, UNITED STATES
De La Cerda, Alan Paul, Chandler, AZ, UNITED STATES
Simonson, Norb, Mesa, AZ, UNITED STATES
Anderson, Clifford Lynde Hunt, Tempe, AZ, UNITED STATES
Franciskovich, Phillip, Phoenix, AZ, UNITED STATES
Kahn, Peter Albert, Phoenix, AZ, UNITED STATES
PI US 2003064507 A1 20030403
AI US 2002-206841 A1 20020726 (10)
PRAI US 2002-395257P 20020711 (60)
US 2001-308169P 20010726 (60)
DT Utility
FS APPLICATION
LREP Robin M. Silva, Esq., DORSEY & WHITNEY, LLP, Suite 3400, Four Embarcadero Center, San Francisco, CA, 94111-4187
CLMN Number of Claims: 113
ECL Exemplary Claim: 1
DRWN 13 Drawing Page(s)
LN.CNT 3079

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides microfluidic systems comprising microfluidic chambers and mixers, and methods of use. The microfluidic chambers of the present invention comprise a flexible membrane which provides efficient mixing of the solution therein. The present invention also provides a microfluidic chamber in fluidic communication with a micro-disk and a microfluidic chamber comprising a shim such that and a contiguous gap is present between a sample fluid and the chamber membrane. The microfluidic systems find use in the decrease in time for

reactions occurring therein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 4 USPATFULL on STN
AN 2002:314662 USPATFULL
TI Compositions, methods, and kits for isolating nucleic acids using
surfactants and proteases
IN Greenfield, Lawrence, San Mateo, CA, UNITED STATES
Montesclaros, Luz, Pittsburg, CA, UNITED STATES
PI US 2002177139 A1 20021128
US 6762027 B2 20040713
AI US 2001-997169 A1 20011128 (9)
RLI Continuation-in-part of Ser. No. US 2000-724613, filed on 28 Nov 2000,
PENDING
DT Utility
FS APPLICATION
LREP Finnegan, Henderson, Farabow,, Garrett & Dunner, L.L.P., 1300 I Street,
N.W., Washington, DC, 20005-3315
CLMN Number of Claims: 64
ECL Exemplary Claim: 1
DRWN 32 Drawing Page(s)
LN.CNT 2457

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to compositions and methods for isolating nucleic
acids from biological samples, including whole tissue. The invention
also provides kits for isolating nucleic acids from biological samples.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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=> s extract? (10a) nucleic acid?
3 FILES SEARCHED...
L16      10430 EXTRACT? (10A) NUCLEIC ACID?

=> s 116 and protease
L17      2721 L16 AND PROTEASE

=> s 117 and surfactant
L18      497 L17 AND SURFACTANT

=> s 118 and cationic
L19      116 L18 AND CATIONIC

=> s 119 and cationic (4a) (surfactant? or detergent?)
L20      26 L19 AND CATIONIC (4A) (SURFACTANT? OR DETERGENT?)

=> s 120 and salt
L21      26 L20 AND SALT

=> dup rem 121
PROCESSING COMPLETED FOR L21
L22      26 DUP REM L21 (0 DUPLICATES REMOVED)

=> s 122 not 16
L23      24 L22 NOT L6

=> d 123 bib abs 1-24

L23  ANSWER 1 OF 24  USPATFULL on STN
AN    2004:273272  USPATFULL
TI    Modulators of body weight, corresponding nucleic acids and proteins, and
      diagnostic and therapeutic uses thereof
IN    Friedman, Jeffrey M., New York, NY, UNITED STATES
      Zhang, Yiyang, New York, NY, UNITED STATES
      Proenca, Ricardo, Astoria, NY, UNITED STATES
      Maffei, Margherita, New York, NY, UNITED STATES
      Halaas, Jeffrey L., New York, NY, UNITED STATES
      Gajiwala, Ketan, New York, NY, UNITED STATES
      Burley, Stephen K., New York, NY, UNITED STATES
PI    US 2004213763      A1    20041028
AI    US 2003-730488      A1    20031208 (10)
RLI   Continuation of Ser. No. US 2000-736084, filed on 13 Dec 2000, ABANDONED
      Continuation of Ser. No. US 1995-485943, filed on 7 Jun 1995, PENDING
      Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995,
      GRANTED, Pat. No. US 6429290 Continuation-in-part of Ser. No. US
      1994-347563, filed on 30 Nov 1994, GRANTED, Pat. No. US 5935810
      Continuation-in-part of Ser. No. US 1994-292345, filed on 17 Aug 1994,
      GRANTED, Pat. No. US 6001968
DT    Utility
FS    APPLICATION
LREP  KLAUBER & JACKSON, 411 HACKENSACK AVENUE, HACKENSACK, NJ, 07601
CLMN  Number of Claims: 9
ECL   Exemplary Claim: CLM-01-53
DRWN  61 Drawing Page(s)
LN.CNT 6764
AB    The present invention relates generally to the control of body weight of
      animals including mammals and humans, and more particularly to materials
      identified herein as modulators of weight, and to the diagnostic and
      therapeutic uses to which such modulators may be put. In its broadest
      aspect, the present invention relates to the elucidation and discovery
      of nucleotide sequences, and proteins putatively expressed by such

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nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight. The nucleotide sequences in object represent the genes corresponding to the murine and human ob gene, that have been postulated to play a critical role in the regulation of body weight and adiposity. Preliminary data, presented herein, suggests that the polypeptide product of the gene in question functions as a hormone. The present invention further provides nucleic acid molecules for use as molecular probes, or as primers for polymerase chain reaction (PCR) amplification, i.e., synthetic or natural oligonucleotides. In further aspects, the present invention provides a cloning vector, which comprises the nucleic acids of the invention; and a bacterial, insect, or a mammalian expression vector, which comprises the nucleic acid molecules of the invention, operatively associated with an expression control sequence. Accordingly, the invention further relates to a bacterial or a mammalian cell transfected or transformed with an appropriate expression vector, and correspondingly, to the use of the above mentioned constructs in the preparation of the modulators of the invention. Also provided are antibodies to the ob polypeptide. Moreover, a method for modulating body weight of a mammal is provided. In specific examples, genes encoding two isoforms of both the murine and human ob polypeptides are provided.

L23 ANSWER 2 OF 24 USPATFULL on STN

AN 2004:186705 USPATFULL

TI Neuroprotective methods and reagents

IN Mahanthappa, Nagesh K., Cambridge, MA, United States

PA Curis, Inc., Cambridge, MA, United States (U.S. corporation)

PI US 6767888 B1 20040727

AI US 1999-418221 19991014 (9)

RLI Continuation-in-part of Ser. No. US 1997-883656, filed on 27 Jun 1997, now abandoned

DT Utility

FS GRANTED

EXNAM Primary Examiner: Eyler, Yvonne; Assistant Examiner: Brannock, Michael

LREP Ropes & Gray LLP

CLMN Number of Claims: 8

ECL Exemplary Claim: 1

DRWN 1 Drawing Figure(s); 1 Drawing Page(s)

LN.CNT 4510

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB One aspect of the present application relates to a method for limiting damage to neuronal cells by ischemic or epoxic conditions, e.g., such as may be manifest by a reduction in brain infarct volume, by administering to an individual a hedgehog therapeutic or ptc therapeutic in an amount effective for reducing cerebral infarct volume.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 3 OF 24 USPATFULL on STN

AN 2004:178309 USPATFULL

TI Aza-benzazolum containing cyanine dyes

IN Haugland, Richard P., Eugene, OR, UNITED STATES

Yue, Stephen T., Eugene, OR, UNITED STATES

PI US 2004137475 A1 20040715

AI US 2003-683753 A1 20031013 (10)

RLI Division of Ser. No. US 2000-557275, filed on 24 Apr 2000, GRANTED, Pat. No. US 6664047

PRAI US 1999-131782P 19990430 (60)

US 1999-158859P 19991012 (60)

DT Utility

FS APPLICATION

LREP KOREN ANDERSON, MOLECULAR PROBES, INC., 29851 WILLOW CREEK ROAD, EUGENE,
OR, 97402-9132
CLMN Number of Claims: 43
ECL Exemplary Claim: 1
DRWN 4 Drawing Page(s)
LN.CNT 3372

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Unsymmetrical cyanine dyes that incorporate an aza-benzazolum ring moiety are described, including cyanine dyes substituted by a **cationic** side chain, monomeric and dimeric cyanine dyes, chemically reactive cyanine dyes, and conjugates of cyanine dyes. The subject dyes are virtually non-fluorescent when diluted in aqueous solution, but exhibit bright fluorescence when associated with nucleic acid polymers such as DNA or RNA, or when associated with detergent-complexed proteins. A variety of applications are described for detection and quantitation of nucleic acids and detergent-complexed proteins in a variety of samples, including solutions, electrophoretic gels, cells, and microorganisms.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 4 OF 24 USPATFULL on STN
AN 2004:171921 USPATFULL
TI Method for isolating DNA
IN Gautsch, James W., Solana Beach, CA, UNITED STATES
Saghbini, Michael G., San Diego, CA, UNITED STATES
Lippman, David A., San Marcos, CA, UNITED STATES
Dana, Richard C., Escondido, CA, UNITED STATES
PA BIO101 (U.S. corporation)
PI US 2004132082 A1 20040708
AI US 2003-739963 A1 20031217 (10)
RLI Continuation of Ser. No. US 2001-863167, filed on 23 May 2001, PENDING
Continuation of Ser. No. US 1997-937905, filed on 25 Sep 1997, GRANTED,
Pat. No. US 6235501 Continuation of Ser. No. US 1995-388504, filed on 14
Feb 1995, ABANDONED
DT Utility
FS APPLICATION
LREP Lisa A. Haile, J.D., Ph.D., GRAY CARY WARE & FREIDENRICH LLP, Suite
1100, 4365 Executive Drive, San Diego, CA, 92121-2133
CLMN Number of Claims: 29
ECL Exemplary Claim: 1
DRWN 11 Drawing Page(s)
LN.CNT 1575

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention describes a method for the isolation of components from samples, particularly large molecular weight DNA from biological samples. The method involves the application of controlled oscillatory mechanical energy to the sample for short periods of time of about 5 to 60 seconds to lyse the sample and release the component(s) from the sample, followed by standard isolation methods. In preferred embodiments, the method includes the use of a spherical particle for applying the mechanical energy.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 5 OF 24 USPATFULL on STN
AN 2004:38627 USPATFULL
TI **Nucleic acid**-separating method and **nucleic acid-extracting** reagent
IN Fan, Kejun, Tokyo, JAPAN
PA JSR CORPORATION, Tokyo, JAPAN (non-U.S. corporation)
PI US 2004029166 A1 20040212

AI US 2003-627780 A1 20030728 (10)
PRAI JP 2002-220099 20020729
DT Utility
FS APPLICATION
LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,
ALEXANDRIA, VA, 22314
CLMN Number of Claims: 7
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 807

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for purifying nucleic acids wherein objective nucleic acids are separated through solid-liquid separation by deposition of the nucleic acids onto a solid-phase carrier, via enzymatic treatment of a cell lysis solution, from a sample containing nucleated cells and the like, as well as a kit for carrying out the method.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 6 OF 24 USPATFULL on STN
AN 2003:337233 USPATFULL
TI Mutant genes in Familial British Dementia and Familial Danish Dementia
IN Ghiso, Jorge, Elmhurst, NY, United States
Vidal, Ruben, Great Neck, NY, United States
Frangione, Blas, New York, NY, United States
PA New York University, New York, NY, United States (U.S. corporation)
PI US 6670195 B1 20031230
AI US 2000-579012 20000526 (9)
PRAI US 1999-136238P 19990526 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Falk, Anne-Marie
LREP Venable LLP, Livnat, Shmuel
CLMN Number of Claims: 3
ECL Exemplary Claim: 1
DRWN 7 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 2973

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Two novel mutant amyloid protein precursors (ABriPP and ADanPP) and their amyloid peptides (ABri and ADan) associated with Familial British Dementia and Familial Danish Dementia, respectively, are disclosed. Genetic constructs comprising DNA encoding these proteins is used to produced transgenic mammals that are useful models for neurological diseases associated with amyloid deposits, neurofibrillary tangles, non-neuritic plaques, neuronal degeneration and behavioral deficits characteristic of dementia and other symptoms of the human diseases. These models are used for testing potential therapeutic agents and methods. Also provided is a DNA-based test for detecting the mutations, the mutant proteins and peptides, antibodies specific for the proteins and peptides. Immunoassays permit detection of the mutant proteins, particularly in affected brain tissue, or detection of an antibody specific for a mutant peptide.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 7 OF 24 USPATFULL on STN
AN 2003:326924 USPATFULL
TI Aza-benzazolium containing cyanine dyes
IN Haugland, Richard P., Eugene, OR, United States
Yue, Stephen T., Eugene, OR, United States
PA Molecular Probes, Inc., Eugene, OR, United States (U.S. corporation)
PI US 6664047 B1 20031216

AI US 2000-557275 20000424 (9)
PRAI US 1999-158859P 19991012 (60)
US 1999-131782P 19990430 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Fredman, Jeffrey
LREP Anderson, Koren, Skaugset, Anton
CLMN Number of Claims: 55
ECL Exemplary Claim: 1
DRWN 4 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 3168

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Unsymmetrical cyanine dyes that incorporate an aza-benzazolum ring moiety are described, including cyanine dyes substituted by a **cationic** side chain, monomeric and dimeric cyanine dyes, chemically reactive cyanine dyes, and conjugates of cyanine dyes. The subject dyes are virtually non-fluorescent when diluted in aqueous solution, but exhibit bright fluorescence when associated with nucleic acid polymers such as DNA or RNA, or when associated with detergent-complexed proteins. A variety of applications are described for detection and quantitation of nucleic acids and detergent-complexed proteins in a variety of samples, including solutions, electrophoretic gels, cells, and microorganisms.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 8 OF 24 USPATFULL on STN
AN 2003:243864 USPATFULL
TI Adjuvant compositions
IN O'Hagan, Derek, Berkeley, CA, UNITED STATES
Valiante, Nicholas, Fremont, CA, UNITED STATES
PI US 2003170273 A1 20030911
AI US 2002-265083 A1 20021003 (10)
PRAI US 2001-326929P 20011003 (60)
US 2002-373547P 20020417 (60)
DT Utility
FS APPLICATION
LREP CHIRON CORPORATION, Intellectual Property - R440, P.O. Box 8097,
Emeryville, CA, 94662-8097
CLMN Number of Claims: 75
ECL Exemplary Claim: 1
DRWN 10 Drawing Page(s)
LN.CNT 3618

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Adjuvant compositions comprising type 1 interferon inducers, such as double-stranded RNA, in combination with antigen delivery systems and/or immunostimulatory molecules, such as immunostimulatory nucleic acid sequences, for enhancing the immune response of a coadministered antigen, are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 9 OF 24 USPATFULL on STN
AN 2003:232637 USPATFULL
TI Bactericide, antiseptic, dermally applicable composition, washing composition, antibacterial fiber aggregate, method for eradicating a microorganism, and method for inhibiting the proliferation of a microorganism
IN Yumioka, Ryosuke, Kanagawa, JAPAN
Nakanishi, Noriyuki, Kanagawa, JAPAN
Yokota, Hirofumi, Kanagawa, JAPAN
PA Ajinomoto Co., Inc., Tokyo, JAPAN (non-U.S. corporation)

PI US 2003162838 A1 20030828
AI US 2002-212733 A1 20020807 (10)
PRAI JP 2001-250557 20010821
DT Utility
FS APPLICATION
LREP OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC, FOURTH FLOOR, 1755
JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA, 22202
CLMN Number of Claims: 8
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1394

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A bactericide and an anticeptic comprises at least an amide group-containing guanidine derivative represented by General Formula (I) or a **salt** thereof: ##STR1##

wherein R.sup.1 and R.sup.2 are same or different and each denotes a hydrogen atom, a straight or branched alkyl group or alkenyl group having 1 to 4 carbon atoms, R.sup.3 denotes a straight or branched alkyl group or alkenyl group having 1 to 22 carbon atoms, and A denotes a straight or branched alkylene group or alkenylene group having 1 to 10 carbon atoms.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 10 OF 24 USPATFULL on STN
AN 2002:307826 USPATFULL
TI Method for isolating DNA
IN Gautsch, James W., Solana Beach, CA, UNITED STATES
Sagbini, Michael G., San Diego, CA, UNITED STATES
Lippman, David A., San Marcos, CA, UNITED STATES
Dana, Richard C., Escondido, CA, UNITED STATES
PA BIO 101, Inc., Carlsbad, CA, UNITED STATES, 92008 (U.S. corporation)
PI US 2002172949 A1 20021121
US 6706498 B2 20040316
AI US 2001-863137 A1 20010522 (9)
RLI Continuation of Ser. No. US 1997-937905, filed on 25 Sep 1997, GRANTED,
Pat. No. US 6235501 Continuation of Ser. No. US 1995-388504, filed on 14
Feb 1995, ABANDONED
DT Utility
FS APPLICATION
LREP Thomas Fitting, Suite 300, 12526 High Bluff Drive, San Diego, CA, 92130
CLMN Number of Claims: 29
ECL Exemplary Claim: 1
DRWN 11 Drawing Page(s)
LN.CNT 1577

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention describes a method for the isolation of components from samples, particularly large molecular weight DNA from biological samples. The method involves the application of controlled oscillatory mechanical energy to the sample for short periods of time of about 5 to 60 seconds to lyse the sample and release the component(s) from the sample, followed by standard isolation methods. In preferred embodiments, the method includes the use of a spherical particle for applying the mechanical energy.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 11 OF 24 USPATFULL on STN
AN 2002:282977 USPATFULL
TI Ob polypeptides, modified forms and compositions thereto
IN Friedman, Jeffrey M., New York, NY, United States

Zhang, Yiyang, New York, NY, United States
 Proenca, Ricardo, Astoria, NY, United States
 PA The Rockefeller University, New York, NY, United States (U.S.
 corporation)
 PI US 6471956 B1 20021029
 AI US 1995-488225 19950607 (8)
 RLI Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995
 Continuation-in-part of Ser. No. US 1994-347563, filed on 30 Nov 1994,
 now patented, Pat. No. US 5935810 Continuation-in-part of Ser. No. US
 1994-292345, filed on 17 Aug 1994, now patented, Pat. No. US 6001968
 DT Utility
 FS GRANTED
 EXNAM Primary Examiner: Saoud, Christine J.
 LREP Klauber & Jackson
 CLMN Number of Claims: 45
 ECL Exemplary Claim: 1
 DRWN 65 Drawing Figure(s); 61 Drawing Page(s)
 LN.CNT 7195

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates generally to the control of body weight of
 animals including mammals and humans, and more particularly to materials
 identified herein as modulators of weight, and of the diagnostic and
 therapeutic uses to such modulators. In its broadest aspect, the present
 invention relates to the elucidation and discovery of nucleotide
 sequences, and proteins putatively expressed by such nucleotides or
 degenerate variations thereof, that demonstrate the ability to
 participate in the control of mammalian body weight. The nucleotide
 sequences in object represent the genes corresponding to the murine and
 human ob gene, that have been postulated to play a critical role in the
 regulation of body weight and adiposity. Preliminary data, presented
 herein, suggests that the polypeptide product of the gene in question
 functions as a hormone. The present invention further provides nucleic
 acid molecules for use as molecular probes, or as primers for polymerase
 chain reaction (PCR) amplification, i.e., synthetic or natural
 oligonucleotides. In further aspects, the present invention provides a
 cloning vector, which comprises the nucleic acids of the invention; and
 a bacterial, insect, or a mammalian expression vector, which comprises
 the nucleic acid molecules of the invention, operatively associated with
 an expression control sequence. Accordingly, the invention further
 relates to a bacterial or a mammalian cell transfected or transformed
 with an appropriate expression vector, and correspondingly, to the use
 of the above mentioned constructs in the preparation of the modulators
 of the invention. Also provided are antibodies to the ob polypeptide.
 Moreover, a method for modulating body weight of a mammal is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 12 OF 24 USPATFULL on STN
 AN 2002:227970 USPATFULL
 TI Cutinase variants
 IN Svendsen, Allan, Horsholm, DENMARK
 Glad, Sanne O. Schroder, Ballerup, DENMARK
 Fukuyama, Shiro, Chiba, JAPAN
 Matsui, Tomoko, Chiba, JAPAN
 PA Novozymes A/S, Bagsvaerd, DENMARK, 2880 (non-U.S. corporation)
 PI US 2002123123 A1 20020905
 AI US 2001-873075 A1 20010601 (9)
 PRAI DK 2000-861 20000602
 DK 2000-1577 20001023
 DK 2000-1772 20001124
 DK 2001-100 20010119
 US 2000-211004P 20000612 (60)

US 2000-244351P 20001030 (60)
US 2000-253798P 20001129 (60)
US 2001-265473P 20010131 (60)

DT Utility

FS APPLICATION

LREP NOVOZYMES NORTH AMERICA, INC., C/O NOVO NORDISK OF NORTH AMERICA, INC.,
405 LEXINGTON AVENUE, SUITE 6400, NEW YORK, NY, 10174

CLMN Number of Claims: 32

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1260

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Variants of fungal cutinases having improved thermostability comprise substitution of one or more specified amino acid residues and/or a specified N-terminal extension. The variants may optionally comprise additional alterations at other positions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 13 OF 24 USPATFULL on STN

AN 2002:199102 USPATFULL

TI Modulators of body weight, corresponding nucleic acids and proteins, and diagnostic and therapeutic uses thereof

IN Friedman, Jeffrey M., New York, NY, UNITED STATES

Halaas, Jeffrey L., New York, NY, UNITED STATES

Gajiwala, Ketan, New York, NY, UNITED STATES

Burley, Stephen K., New York, NY, UNITED STATES

Zhang, Yiyang, New York, NY, UNITED STATES

Proenca, Ricardo, Astoria, NY, UNITED STATES

Maffei, Margherita, New York, NY, UNITED STATES

PA The Rockefeller University (U.S. corporation)

PI US 2002107211 A1 20020808

AI US 2000-736084 A1 20001213 (9)

RLI Continuation of Ser. No. US 1995-485943, filed on 7 Jun 1995, PENDING

DT Utility

FS APPLICATION

LREP David A. Jackson, Esq., KLAUBER & JACKSON, 411 Hackensack Avenue,
Hackensack, NJ, 07601

CLMN Number of Claims: 53

ECL Exemplary Claim: 1

DRWN 52 Drawing Page(s)

LN.CNT 6895

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates generally to the control of body weight of animals including mammals and humans, and more particularly to materials identified herein as modulators of weight, and to the diagnostic and therapeutic uses to which such modulators may be put. In its broadest aspect, the present invention relates to the elucidation and discovery of nucleotide sequences, and proteins putatively expressed by such nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight. The nucleotide sequences in object represent the genes corresponding to the murine and human ob gene, that have been postulated to play a critical role in the regulation of body weight and adiposity. Preliminary data, presented herein, suggests that the polypeptide product of the gene in question functions as a hormone. The present invention further provides nucleic acid molecules for use as molecular probes, or as primers for polymerase chain reaction (PCR) amplification, i.e., synthetic or natural oligonucleotides. In further aspects, the present invention provides a cloning vector, which comprises the nucleic acids of the invention; and a bacterial, insect, or a mammalian expression vector, which comprises the nucleic acid molecules of the invention, operatively

associated with an expression control sequence. Accordingly, the invention further relates to a bacterial or a mammalian cell transfected or transformed with an appropriate expression vector, and correspondingly, to the use of the above mentioned constructs in the preparation of the modulators of the invention. Also provided are antibodies to the ob polypeptide. Moreover, a method for modulating body weight of a mammal is provided. In specific examples, genes encoding two isoforms of both the murine and human ob polypeptides are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 14 OF 24 USPATFULL on STN
AN 2002:194880 USPATFULL
TI Reverse micelles for delivery of nucleic acids
IN Monahan, Sean D., Madison, WI, United States
Wolff, Jon A., Madison, WI, United States
Slattum, Paul M., Madison, WI, United States
Hagstrom, James E., Madison, WI, United States
Budker, Vladimir G., Madison, WI, United States
PA Mirus Corporation, Madison, WI, United States (U.S. corporation)
PI US 6429200 B1 20020806
AI US 1999-354957 19990716 (9)
PRAI US 1998-93227P 19980717 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Guzo, David
LREP Johnson, Mark K.
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 1480

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A complex is described for delivery to a cell comprising inserting a nucleic acid into a reverse micelle. The reverse micelle has the property to compact the nucleic acid for easier delivery. Other molecules are used to interact with the nucleic acid--micelle complex to further enhance delivery such as a **surfactant** having a disulfide bond.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 15 OF 24 USPATFULL on STN
AN 2002:174984 USPATFULL
TI Zymogen activation system
IN Darrow, Andrew, Lansdale, PA, United States
Qi, Jenson, Branchburg, NJ, United States
Andrade-Grodon, Patricia, Doylestown, PA, United States
PA Ortho-McNeil Pharmaceutical, Inc., Raritan, NJ, United States (U.S. corporation)
PI US 6420157 B1 20020716
AI US 1999-386642 19990831 (9)
RLI Continuation-in-part of Ser. No. US 1999-303162, filed on 30 Apr 1999
DT Utility
FS GRANTED
EXNAM Primary Examiner: Achutamurthy, Ponnathapu; Assistant Examiner: Moore, William W.
LREP Wallen III, John W.
CLMN Number of Claims: 16
ECL Exemplary Claim: 1
DRWN 37 Drawing Figure(s); 34 Drawing Page(s)
LN.CNT 3029

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB We describe the DNA sequences encoding an expression vector system that will permit, through limited proteolysis, the activation of expressed zymogen precursor of (S1) serine proteases in a highly controlled and reproducible fashion. The processed expressed protein, once activated, is rendered in a form amenable to measuring the catalytic activity. This catalytic activity of the activated form, is often a more accurate representation of the mature S1 **protease** gene product relative to the unprocessed zymogen precursor. Thus, this series of zymogen activation constructs represents a significant system for the analysis and characterization of serine **protease** gene products.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 16 OF 24 USPATFULL on STN
AN 2002:39906 USPATFULL
TI OB polypeptides and modified forms as modulators of body weight
IN Friedman, Jeffrey M., New York, NY, United States
Zhang, Yiyang, New York, NY, United States
Proenca, Ricardo, Astoria, NY, United States
PA The Rockefeller University, New York, NY, United States (U.S. corporation)
PI US 6350730 B1 20020226
AI US 1995-488223 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995
Continuation-in-part of Ser. No. US 1994-347563, filed on 30 Nov 1994, now patented, Pat. No. US 5935810 Continuation-in-part of Ser. No. US 1994-292345, filed on 17 Aug 1994, now patented, Pat. No. US 6001968
DT Utility
FS GRANTED
EXNAM Primary Examiner: Saoud, Christine J.
LREP Klauber & Jackson
CLMN Number of Claims: 27
ECL Exemplary Claim: 1
DRWN 65 Drawing Figure(s); 61 Drawing Page(s)
LN.CNT 7111

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates generally to the control of body weight of animals including mammals and humans, and more particularly to materials identified herein as modulators of body weight, and to diagnostic and therapeutic uses of such modulators. In one of its broadest aspects, the present invention relates to nucleotide sequences corresponding to the murine and human OB gene, and two isoforms thereof, and proteins expressed by such nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight and that have been postulated to play a critical role in the regulation of body weight and adiposity. The present invention further provides nucleic acid molecules for use as molecular probes or as primers for polymerase chain reaction (PCR) amplification. In further aspects, the present invention provides cloning vectors and mammalian expression vectors comprising the nucleic acid molecules of the invention. The invention further relates to host cells transfected or transformed with an appropriate expression vector and to their use in the preparation of the modulators of the invention. Also provided are antibodies to the OB polypeptide. Moreover, a method for modulating body weight of a mammal is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 17 OF 24 USPATFULL on STN
AN 2001:190931 USPATFULL
TI Modulators of body weight, corresponding nucleic acids and proteins, and diagnostic and therapeutic uses thereof

IN Friedman, Jeffrey M., New York, NY, United States
Zhang, Yiyang, New York, NY, United States
Proenca, Ricardo, Astoria, NY, United States
PA The Rockefeller University, NY, NY, United States (U.S. corporation)
PI US 6309853 B1 20011030
AI US 1995-483211 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995
Continuation-in-part of Ser. No. US 1994-347563, filed on 30 Nov 1994,
now patented, Pat. No. US 5936810 Continuation-in-part of Ser. No. US
1994-292345, filed on 17 Aug 1994, now patented, Pat. No. US 6001968
DT Utility
FS GRANTED
EXNAM Primary Examiner: Yucel, Remy
LREP Klauber & Jackson
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 65 Drawing Figure(s); 61 Drawing Page(s)
LN.CNT 6074

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates generally to the control of body weight of animals including mammals and humans, and more particularly to materials identified herein as modulators of body weight, and to diagnostic and therapeutic uses of such modulators. In its broadest aspect, the present invention relates to nucleotide sequences corresponding to the murine and human OB gene, and two isoforms thereof, and proteins expressed by such nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight and that have been postulated to play a critical role in the regulation of body weight and adiposity. The present invention further provides nucleic acid molecules for use as molecular probes or as primers for polymerase chain reaction (PCR) amplification. In further aspects, the present invention provides cloning vectors and mammalian expression vectors comprising the nucleic acid molecules of the invention. The invention further relates to host cells transfected or transformed with an appropriate expression vector and to their use in the preparation of the modulators of the invention. Also provided are antibodies to the OB polypeptide. Moreover, a method for modulating body weight of a mammal is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 18 OF 24 USPATFULL on STN
AN 2001:75154 USPATFULL
TI Method for isolation DNA
IN Gautsch, James W., Solana Beach, CA, United States
Saghbini, Michael G., San Diego, CA, United States
Lippman, David A., San Marcos, CA, United States
Dana, Richard C., Escondido, CA, United States
PA Biol01, Inc., Carlsbad, CA, United States (U.S. corporation)
PI US 6235501 B1 20010522
AI US 1997-937905 19970925 (8)
RLI Continuation of Ser. No. US 1995-388504, filed on 14 Feb 1995, now
abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Prats, Francisco
LREP Fitting, Thomas
CLMN Number of Claims: 37
ECL Exemplary Claim: 1
DRWN 14 Drawing Figure(s); 11 Drawing Page(s)
LN.CNT 1576

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention describes a method for the isolation of components from samples, particularly large molecular weight DNA from biological samples. The method involves the application of controlled oscillatory mechanical energy to the sample for short periods of time of about 5 to 60 seconds to lyse the sample and release the component(s) from the sample, followed by standard isolation methods. In preferred embodiments, the method includes the use of a spherical particle for applying the mechanical energy.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 19 OF 24 USPATFULL on STN

AN 2000:128480 USPATFULL

TI Nucleic acid primers and probes for the mammalian OB gene

IN Friedman, Jeffrey M., New York, NY, United States

Zhang, Yiyang, New York, NY, United States

Proenca, Ricardo, Astoria, NY, United States

Maffei, Margherita, New York, NY, United States

PA The Rockefeller University, NY, United States (U.S. corporation)

PI US 6124448 20000926

AI US 1995-488208 19950607 (8)

RLI Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995 which is a continuation-in-part of Ser. No. US 1994-347563, filed on 30 Nov 1994, now patented, Pat. No. US 5935810 which is a continuation-in-part of Ser. No. US 1994-292345, filed on 17 Aug 1994

DT Utility

FS Granted

EXNAM Primary Examiner: Railey, II, Johnny F.

LREP Klauber & Jackson

CLMN Number of Claims: 4

ECL Exemplary Claim: 1

DRWN 61 Drawing Figure(s); 61 Drawing Page(s)

LN.CNT 7089

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates generally to the control of body weight of animals including mammals and humans, and more particularly to materials identified herein as modulators of weight, and to the diagnostic and therapeutic uses to which such modulators may be put. In its broadest aspect, the present invention relates to the elucidation and discovery of nucleotide sequences, and proteins putatively expressed by such nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight. The nucleotide sequences in object represent the genes corresponding to the murine and human ob gene, that have been postulated to play a critical role in the regulation of body weight and adiposity. Preliminary data, presented herein, suggests that the polypeptide product of the gene in question functions as a hormone. The present invention further provides nucleic acid molecules for use as molecular probes, or as primers for polymerase chain reaction (PCR) amplification, i.e., synthetic or natural oligonucleotides. In further aspects, the present invention provides a cloning vector, which comprises the nucleic acids of the invention; and a bacterial, insect, or a mammalian expression vector, which comprises the nucleic acid molecules of the invention, operatively associated with an expression control sequence. Accordingly, the invention further relates to a bacterial or a mammalian cell transfected or transformed with an appropriate expression vector, and correspondingly, to the use of the above mentioned constructs in the preparation of the modulators of the invention. Also provided are antibodies to the ob polypeptide. Moreover, a method for modulating body weight of a mammal is provided. In specific examples, genes encoding two isoforms of both the murine and human ob polypeptides are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 20 OF 24 USPATFULL on STN
AN 2000:128471 USPATFULL
TI OB polypeptide antibodies and method of making
IN Friedman, Jeffrey M., New York, NY, United States
Zhang, Yiyang, New York, NY, United States
Proenca, Ricardo, Astoria, NY, United States
PA The Rockefeller University, New York, NY, United States (U.S.
corporation)
PI US 6124439 20000926
AI US 1995-488214 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995
which is a continuation-in-part of Ser. No. US 1994-347563, filed on 30
Nov 1994 which is a continuation-in-part of Ser. No. US 1994-292345,
filed on 17 Aug 1994
DT Utility
FS Granted
EXNAM Primary Examiner: Draper, Garnette D.
LREP Klauber & Jackson
CLMN Number of Claims: 27
ECL Exemplary Claim: 1
DRWN 68 Drawing Figure(s); 61 Drawing Page(s)
LN.CNT 6777

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates generally to the control of body weight of
animals including mammals and humans, and more particularly to materials
identified herein as modulators of body weight, and to diagnostic and
therapeutic uses of such modulators. In its broadest aspect, the present
invention relates to nucleotide sequences corresponding to the murine
and human OB gene, and two isoforms thereof, and proteins expressed by
such nucleotides or degenerate variations thereof, that demonstrate the
ability to participate in the control of mammalian body weight and that
have been postulated to play a critical role in the regulation of body
weight and adiposity. The present invention further provides nucleic
acid molecules for use as molecular probes or as primers for polymerase
chain reaction (PCR) amplification. In further aspects, the present
invention provides cloning vectors and mammalian expression vectors
comprising the nucleic acid molecules of the invention. The invention
further relates to host cells transfected or transformed with an
appropriate expression vector and to their use in the preparation of the
modulators of the invention. Also provided are antibodies to the OB
polypeptide. Moreover, a method for modulating body weight of a mammal
is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 21 OF 24 USPATFULL on STN
AN 2000:44077 USPATFULL
TI OB polypeptides as modulators of body weight
IN Friedman, Jeffrey M., New York, NY, United States
Zhang, Yiyang, New York, NY, United States
Proenca, Ricardo, Astoria, NY, United States
PA The Rockefeller University, United States (U.S. corporation)
PI US 6048837 20000411
AI US 1995-485942 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995
which is a continuation-in-part of Ser. No. US 1994-347563, filed on 30
Nov 1994 which is a continuation-in-part of Ser. No. US 1994-292345,
filed on 17 Aug 1994
DT Utility
FS Granted

EXNAM Primary Examiner: Draper, Garnette D.
LREP Klauber & Jackson
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 35 Drawing Figure(s); 61 Drawing Page(s)
LN.CNT 7390

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates generally to the control of body weight of animals including mammals and humans, and more particularly to materials identified herein as modulators of body weight, and to diagnostic and therapeutic uses of such modulators. In its broadest aspect, the present invention relates to nucleotide sequences corresponding to the murine and human OB gene, and two isoforms thereof, and proteins expressed by such nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight and that have been postulated to play a critical role in the regulation of body weight and adiposity. The present invention further provides nucleic acid molecules for use as molecular probes or as primers for polymerase chain reaction (PCR) amplification. In further aspects, the present invention provides cloning vectors and mammalian expression vectors comprising the nucleic acid molecules of the invention. The invention further relates to host cells transfected or transformed with an appropriate expression vector and to their use in the preparation of the modulators of the invention. Also provided are antibodies to the OB polypeptide. Moreover, a method for modulating body weight of a mammal is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 22 OF 24 USPATFULL on STN

AN 97:89070 USPATFULL
TI Treatment of paraffin embedded tissue for gene analysis
IN Wang, Lu, Amagasaki, Japan
Hirayasu, Kazunari, Amagasaki, Japan
PA Wako Pure Chemical Industries, Ltd., Osaka, Japan (non-U.S. corporation)
PI US 5672696 19970930
AI US 1995-498775 19950705 (8)
PRAI JP 1994-177578 19940706
DT Utility
FS Granted
EXNAM Primary Examiner: Kunz, Gary L.
LREP Armstrong, Westerman, Hattori, McLeland & Naughton
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN 6 Drawing Figure(s); 6 Drawing Page(s)
LN.CNT 1245

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Rapid and easy preparation of a sample for a gene analysis or high-purity nucleic acid suitable for gene amplification especially, for example, by the PCR method is made possible by a process for treating a paraffin-embedded tissue sample to be used for a gene analysis, which comprises heating an aqueous suspension containing a **surfactant** having a protein-denaturational action and a deparaffinized tissue sample obtained from a paraffin-embedded tissue sample at 60° C. or higher, or the above-mentioned process which further comprises reacting the heat-treated aqueous solution with a **protease**, or the above-mentioned process which further comprises reacting the heat-treated aqueous solution with a **protease**, mixing the resulting reaction solution with a solution containing an organic compound having a protein-denaturational action other than the aforesaid **surfactant**, and precipitating nucleic acid from the resulting reaction solution by addition of an alcohol.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 23 OF 24 USPATFULL on STN
AN 90:11264 USPATFULL
TI Process for rapid isolation of high molecular weight DNA
IN Hewitt, Peter L., Andover, MA, United States
PA E. I. Du Pont de Nemours and Company, Wilmington, DE, United States
(U.S. corporation)
PI US 4900677 19900213
AI US 1986-911808 19860926 (6)
DT Utility
FS Granted
EXNAM Primary Examiner: Kepplinger, Esther M.
LREP Frank, George A.
CLMN Number of Claims: 8
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 795

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A procedure for isolating high molecular weight nucleic acids utilizing a mixture of lytic enzymes and a chaotropic agent to complete protein denaturation and dissociation from nucleic acids is provided. The nucleic acids so obtained are useful for restriction enzyme analysis and DNA probe hybridization.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 24 OF 24 USPATFULL on STN
AN 82:42468 USPATFULL
TI Chromatographic process for enzyme purification
IN Johnson, Richard A., Clinton, IA, United States
Lloyd, Norman E., Clinton, IA, United States
PA Nabisco Brands, Inc., New York, NY, United States (U.S. corporation)
PI US 4347322 19820831
AI US 1981-224590 19810112 (6)
DT Utility
FS Granted
EXNAM Primary Examiner: Naff, David M.
LREP Kornutik, Richard, Konzett, Robert A., Wyzan, Henry S.
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 602

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Enzyme purification is carried out by contacting an impure liquid enzyme preparation containing enzyme and soluble impurities with an ion exchange material in a column to adsorb both the enzyme and impurities by the ion exchange material, adding an additional amount of the impure liquid enzyme preparation whereby the soluble impurities therein are preferentially adsorbed by the ion exchange material and the adsorbed enzyme is displaced from the ion exchange material to produce a purified liquid enzyme preparation containing higher enzyme activity than before purification. The purified enzyme is more highly adsorbed by ion exchange material when immobilizing the enzyme.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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